



**U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION II**  
Emergency and Remedial Response Division  
290 Broadway, 18<sup>th</sup> Floor  
New York, New York 10007-1866

**MEMORANDUM**

**FROM:** Lorenzo Thantu, Remedial Project Manager  
Eastern New York Remediation Section

**TO:** File

**DATE:** May 31, 2016

**RE:** Removal Lower Parcel C Soil Excavation Capital Cost Estimate

---

On March 28 – 31, 2016, EPA Removal Program conducted sampling delineation of the Lower Parcel C. Sampling areas were based on 30 x 30 feet grids (900 square feet) at 6 inch increments every 1 foot (i.e., 0-6, 12-18, 24-30, 36-42 48-54, 60-66, and 72-78 feet) for an estimated total of 8 samples per 900 square feet (**see figure attached**). Samples were collected down to groundwater which is estimated at 5 - 7 feet below ground surface (estimated from past test pits and nearby monitoring well).

Based on the March 28 – 31, 2016 sampling event, an estimated 8,500 cubic yards of contaminated soil exceeding the 175 milligrams/kilogram (mg/kg) level for arsenic and 660 mg/kg level for lead, is expected to be accessible and feasible for excavation and disposal off-site. (The 175 mg/kg arsenic and 660 mg/kg lead represent Site-specific impact-to-groundwater (IGW) cleanup levels, developed by EPA and the New York State Department of Environmental Conservation, that, if achieved, will be protective of groundwater, and will further improve the groundwater quality and potentially result in achieving the drinking water standard for arsenic and lead.)

Total estimated capital cost of the Lower Parcel C soil excavation is \$2.5 million over a 12-week duration utilizing Emergency and Rapid Response Services and Removal Support Team contract vehicles. Details of the \$2.5 million capital cost estimate are provided in a table below.

Soil Excavation, Stockpile, and Loading for Disposal	\$570,900
Site Materials and Services	\$117,800
Transportation and Disposal of Contaminated Soil	\$968,000
Analytical Services (Clean Fill, Post Excavation, and Disposal Characterization)	\$60,000
Certified Clean Backfill	300,000
Site Plans and Reports	\$70,000
<b>SUB TOTAL</b>	<b>\$2,086,700</b>
Contingencies @ 20%	\$417,340
<b>TOTAL</b>	<b>\$2,504,040</b>





**Li Tungsten Site  
Lower Parcel C Assessment  
Summary Map**

Garvies Point Rd  
Glen Cove, New York  
(Nassau County)

Map Date: 3/22/2016 @ 8:59:19 AM  
Document Name: 2016-03-21 Li Tungsten Lower C (11x17)

**Legend**

- Proposed End Point Delineation
- Proposed Assess Area
- Proposed Grid Excavation
- Former Tank Area
- Lower Parcel C Property
- Soil Boring Locations (August 2015)**
  - Exceeded Site AL
  - Did Not Exceed Site AL
- Test Pit Locations (Dec 15-16, 2015)
- Site Grid (30ft x 30 ft)



Coordinate System: NAD 1983 2011 StatePlane New York Long Isl FIPS 3104 Ft US  
Projection: Lambert Conformal Conic  
Datum: NAD 1983 2011  
False Easting: 984,250.0000  
False Northing: 0.0000  
Central Meridian: -74.0000  
Standard Parallel 1: 40.6667  
Standard Parallel 2: 41.0333  
Latitude Of Origin: 40.1667  
Units: Foot US

**Sample  
Locations Figure**

U.S. Environmental Protection Agency, Region 2  
Emergency and Remedial Response Division  
Removal Action Branch, Edison, New Jersey



bing

© 2016 Microsoft Corporation © 2010 NAVTEQ © AND

